

Application Serial No. 09/478,849
Amendment Dated 26 September 2005
Response to Office Action mailed on 26 May 2005

Docket No. CIC-037-US

In the Claims:

Please rewrite claims 32, 33, 42, 43, 57, 58, 62, 65, 66, 69 and 78 as follows:

32. (amended four times) An optical system, comprising:

- a. a modulated scanning beam of light for forming an intermediate image;
- b. a light redistributing means positioned proximate to said intermediate image for expanding a cone of light from said modulated scanning beam of light incident on said light redistributing means into a larger cone of exodus, wherein said light redistributing means comprises a light-scattering screen, and said light-scattering screen redistributes light from said beam of light of said intermediate image; and
- c. a re-imaging means for re-imaging said intermediate image so as to form a virtual image, wherein said re-imaging means forms an exit pupil.

33. (thrice amended) An optical system, comprising:

- a. a modulated scanning beam of light for forming an intermediate image;
- b. a means for re-imaging said intermediate image so as to form a virtual image, wherein said means for re-imaging said intermediate image forms an exit pupil; and
- c. a light redistributing means positioned proximate to said intermediate image for expanding said exit pupil, wherein said light redistributing means comprises a light-scattering screen, and said light-scattering screen redistributes light from said beam of light of said intermediate image.

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42. (twice amended) An optical system, comprising:

- a. a modulated scanning beam of light for forming an intermediate image;
- b. a light redistributing means positioned proximate to said intermediate image for expanding a cone of light incident on said light redistributing means into a larger cone of exodus; and
- c. a re-imaging means for re-imaging said intermediate image, wherein said intermediate image comprises at least one aberration, and at least one said at least one aberration is substantially canceled by said re-imaging means.

43. (twice amended) An optical system, comprising:

- a. a modulated scanning beam of light for forming an intermediate image;
- b. a means for re-imaging said intermediate image, wherein said means for re-imaging said intermediate image forms an exit pupil, and said intermediate image comprises at least one aberration, and at least one said at least one aberration is substantially canceled by said means for re-imaging; and
- c. a light redistributing means positioned proximate to said intermediate image for expanding said exit pupil.

57. (once amended) A method of generating an image, comprising:

- a. forming an intermediate image on a light-scattering screen with a scanning modulated beam of light, wherein said light-scattering screen redistributes light from said beam of light of said intermediate image; and
- b. re-imaging said light redistributed from said light-scattering screen so as to form an image of said intermediate image.

58. (once amended) A method of generating an image as recited in claim 57, wherein said light-scattering screen comprises a curved surface.

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62. (once amended) A method of generating an image, comprising:

- 5 a. forming an intermediate image on a light redistributing screen with a scanning modulated beam of light, wherein said light redistributing screen redistributes light from said beam of light of said intermediate image, wherein the operation of forming an intermediate image comprises scanning each of a plurality of colors, and each color is scanned so as to pre-correct for chromatic aberration by the operation of re-imaging; and
- b. re-imaging said light redistributed from said light redistributing screen so as to form an image of said intermediate image.

65. (once amended) A method of generating an image as recited in claim 57, further comprising the operation of converging said light redistributed from said light-scattering screen prior to re-imaging said light.

66. (twice amended) An optical system, comprising:

- 5 a. a scanning modulated beam of light;
- b. a projection surface comprising a light redistributing means, wherein an intensity of said beam of light is modulated to form an intermediate image on said projection surface, wherein said light redistributing means comprises a light-scattering screen, and said light-scattering screen redistributes light from said beam of light of said intermediate image; and
- 10 c. a re-imaging means, wherein said re-imaging means forms a virtual image of said intermediate image from light from said projection surface through an exit pupil viewable by an eye.

69. (once amended) An optical system as recited in claim 66, wherein said projection surface is curved and said scanning modulated beam of light originates at an optical distance approximately equal to a radius of curvature of said projection surface.

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78. (once amended) An optical system, comprising:

a. a means for forming a first image, wherein said first image comprises at least one image color component, and said first image is pre-aberrated with a first lateral chromatic aberration; and

5 b. a re-imaging means for forming a second image from said first image, wherein said re-imaging means causes a second lateral chromatic aberration of said second image relative to said first image, and said second lateral chromatic aberration of said second image caused by said re-imaging means substantially cancels said first lateral chromatic aberration of said first image.